103D CONGRESS 2D SESSION

H. R. 4684

To authorize and provide program direction for high energy and nuclear physics research at the Department of Energy, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

June 30, 1994

Mr. Boucher (for himself, Mr. Brown of California, Mr. Boehlert, Mr. Traficant, Mr. Fawell, Mr. Ehlers, and Mrs. Lloyd) introduced the following bill; which was referred to the Committee on Science, Space, and Technology

A BILL

To authorize and provide program direction for high energy and nuclear physics research at the Department of Energy, and for other purposes.

- 1 Be it enacted by the Senate and House of Representa-
- 2 tives of the United States of America in Congress assembled,
- 3 SECTION 1. SHORT TITLE.
- 4 This Act may be cited as the "Department of Energy
- 5 High Energy and Nuclear Physics Authorization Act of
- 6 1994".
- 7 SEC. 2. DEFINITIONS.
- 8 For the purposes of this Act—

1	(1) the term "CERN" means the European
2	Organization for Nuclear Research;
3	(2) the term "construction" means all activities
4	necessary for completion of a project and its sup-
5	porting infrastructure, and includes conventional
6	construction and the research, development, design,
7	fabrication, installation, testing, and preoperation of
8	technical sytems;
9	(3) the term "conventional construction" means
10	the design and construction of civil works, facilities,
11	and other infrastructure necessary to construct a
12	project, including tunnels, buildings, and roads, nec-
13	essary to house and support the technical systems,
14	and utilities as necessary for the direct support of
15	elements of a project;
16	(4) the term "Department" means the Depart-
17	ment of Energy;
18	(5) the term "Large Hadron Collider project"
19	means the Large Hadron Collider project at CERN;
20	and
21	(6) the term "Secretary" means the Secretary

of Energy.

1 SEC. 3. AUTHORIZATION OF APPROPRIATIONS.

2	(a) HIGH ENERGY PHYSICS.—There are authorized
3	to be appropriated to the Secretary for high energy phys-
4	ics activities of the Department—
5	(1) \$695,400,000 for fiscal year 1996;
6	(2) \$719,700,000 for fiscal year 1997;
7	(3) \$744,900,000 for fiscal year 1998; and
8	(4) \$713,600,000 for fiscal year 1999.
9	Funds authorized under paragraphs (1) through (4) may
10	be expended for the B-factory at the Stanford Linear Ac-
11	celerator Center and the Fermilab Main Injector. No
12	funds are authorized for United States participation in the
13	planning and construction of the Large Hadron Collider
14	project until the Secretary certifies to the Congress that
15	there is an international agreement that includes the pro-
16	visions described in section 4(a).
17	(b) NUCLEAR PHYSICS.—There are authorized to be
18	appropriated to the Secretary for nuclear physics activities
19	of the Department—
20	(1) \$337,100,000 for fiscal year 1996, of which
21	not more than \$15,000,000 shall be used for prepa-
22	ration for decontamination and decommissioning of
23	the Los Alamos Meson Physics Facility;
24	(2) \$348,900,000 for fiscal year 1997;
25	(3) \$361,100,000 for fiscal year 1998; and
26	(4) \$373,700,000 for fiscal year 1999.

- 1 None of the funds authorized under paragraph (2), (3),
- 2 or (4) are authorized to be appropriated for the operation
- 3 of the Los Alamos Meson Physics Facility. Funds author-
- 4 ized under paragraphs (1) through (4) may be expended
- 5 for the Relativistic Heavy Ion Collider at Brookhaven
- 6 National Laboratory.
- 7 (c) Limitation on Major Construction
- 8 Projects.—No funds may be expended for any high en-
- 9 ergy and nuclear physics facility construction project of
- 10 the Department, with total project expenditures projected
- 11 to be in excess of \$100,000,000, unless funds are specifi-
- 12 cally authorized for such purposes in an Act that is not
- 13 an appropriations Act.
- 14 SEC. 4. THE LARGE HADRON COLLIDER PROJECT.
- 15 (a) Negotiations.—The Secretary shall enter into
- 16 negotiations with CERN concerning United States partici-
- 17 pation in the planning and construction of the Large
- 18 Hadron Collider project, and shall seek to ensure that any
- 19 agreement incorporates provisions to protect the United
- 20 States investment in the project, including provisions
- 21 for—
- 22 (1) fair allocation of costs and benefits among
- 23 project participants;

- (2) a limitation on the amount of United States
 contribution to project construction and subsequent
 operating costs;
 - (3) a cost and schedule control system for the total project;
 - (4) the projected cost and schedule for all component design, testing, and fabrication, including technical goals and milestones;
 - (5) the projected cost and schedule for total project construction and operation, including technical goals and milestones;
 - (6) reconsideration of the extent of United States participation if technical or operational milestones described in paragraphs (4) and (5) are not met, or if the project falls significantly behind schedule; and
- 17 (7) conditions of access for United States and 18 other scientists to the facility.
- 19 (b) Other International Negotiations.—Noth-
- 20 ing in this Act shall be construed to preclude the President
- 21 from entering into negotiations with respect to inter-
- 22 national science agreements.
- 23 SEC. 5. OPERATING PLAN.
- Within 30 days after the date of the enactment of
- 25 any Act appropriating funds for the high energy or nuclear

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physics activities of the Department, the Secretary shall transmit to the Committee on Science, Space, and Technology of the House of Representatives and the Committee 3 4 on Energy and Natural Resources of the Senate a plan for the operations of the high energy and nuclear physics activities of the Department, as adjusted to reflect the 6 7 amounts appropriated for such purposes by such Act. 8 SEC. 6. LONG-RANGE PLANNING AND GOVERNANCE. 9 (a) Program Governance Review.— (1) REQUIREMENT.—The Secretary shall con-10 11 tract with an appropriate independent organization to review the governance of all elements of the De-12 partment's high energy and nuclear physics pro-13 grams. Such review shall include— 14 15 (A) a performance review of the effective-16 ness of the Department's management policies 17 and procedures, including an evaluation of de-18 partmental staff allocation and the staff alloca-19 tion and funding balance among facility oper-20 ations, construction, and research support; (B) an evaluation of the appropriateness of 21 22 the current application of administrative, environmental, health, and safety regulations to the 23 24 high energy and nuclear physics laboratories of

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the Department; and

- 1 (C) an analysis of the extent to which the 2 Department's high energy and nuclear physics 3 advisory groups represent the diversity of, and 4 the full range of interests among, high energy 5 and nuclear physics researchers.
 - (2) Report to Congress.—The Secretary shall submit a report to Congress within 9 months after the date of enactment of this Act detailing the results of the review required by this section, including recommendations for implementing the results and schedules for such implementation.

(b) Long-Range Plan.—

- (1) Requirement.—The Secretary and the Director of the National Science Foundation shall jointly prepare, in consultation with the high energy physics and nuclear physics communities, a long-range plan for Federal high energy and nuclear physics programs based on current and projected program funding levels. The plan shall be modified every two years. The long-range plan shall include—
 - (A) a list of research opportunities to be pursued, including both ongoing and proposed activities, listed in order of priority;

1	(B) an analysis of the relevance of each re-
2	search facility to the research opportunities list-
3	ed under subparagraph (A);
4	(C) a statement of the optimal balance
5	among facility operations, construction, and re-
6	search support and the optimal balance between
7	university and laboratory research programs;
8	(D) schedules for continuation, consolida-
9	tion, or termination of each research program,
10	and continuation, upgrade, transfer, or closure
11	of each research facility;
12	(E) a statement by project of efforts to co-
13	ordinate research projects with the international
14	community to maximize the use of limited re-
15	sources and avoid unproductive duplication of
16	efforts; and
17	(F) a description of the extent to which the
18	biennial plan modifications differ from previous
19	plans submitted under this subsection, along
20	with an explanation for such differences.
21	(2) Reports to congress.—(A) The Sec-
22	retary shall transmit a copy of the original long-
23	range plan with the President's annual budget re-
24	quest to Congress for fiscal year 1997. The plan as

modified shall be submitted with the President's

- budget request to Congress for each subsequent fis-cal year ending in an odd number.
- 3 (B) The Secretary shall transmit with the 4 President's budget request to Congress each year a 5 report demonstrating the consistency of the current 6 long-range plan with the budget being requested for 7 the Department's high energy and nuclear physics 8 programs.
- programs.

 (c) Capital Budget Account.—Each of the President's annual budget requests to the Congress for high energy physics activities of the Department, and for nuclear physics activities of the Department, shall distinguish between the budget for capital expenditures, including all ongoing and planned major construction and capital equipment items, and other activities.

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